

# Curriculum Vitae - Dr. Tobias Heindel

E-Mail: tobias.heindel@tu-berlin.de



## Personal Data

Name Dr. (rer. nat.) Tobias Udo Heindel  
Date/Place of Birth 22 April 1984 in Bad Windsheim, Deutschland  
Family Status married, three children

## Academic Career

since 08/2018 **Head of BMBF Junior Research Group**  
Group *Quantum Communication Systems* → [Website](#)  
Project *QuSecure* (BMBF „Quantum Futur“) → [Project Profile](#)  
Technische Universität Berlin, Institute of Solid-State Physics

11/2014 – 07/2018 **Postdoctoral Researcher**  
Technische Universität Berlin, Institute of Solid-State Physics  
Group *Optoelectronics & Quantum Devices*  
Prof. Dr. Stephan Reitzenstein

10/2014 **PhD in Physics (Dr. rer. nat)**  
Julius-Maximilians-Universität Würzburg,  
Chair of Technische Physik  
Thesis title: „Electrically Pumped Quantum-Dot Single-Photon Sources for Quantum Communication“ → [Weblink](#)

04/2012 – 10/2014 **PhD Student**  
Set-up and operation of quantum optics laboratories/experiments  
Technische Universität Berlin, Institute of Solid-State Physics  
Group *Optoelectronics & Quantum Devices*  
Prof. Dr. Stephan Reitzenstein

02/2009 – 03/2012 **PhD Student**  
Development/optimization of electrically driven quantum light sources and implementations of quantum communication  
Julius-Maximilians-Universität Würzburg  
Chair of Technische Physik  
Prof. Dr. Dr. h.c. Alfred Forchel

09/2003 – 02/2009 **Studies of Physics**  
Julius-Maximilians-Universität Würzburg  
Faculty of Physics and Astronomy  
**Degree: Diplom-Physiker Univ.**

06/2003 **High school graduation (German “Abitur”)**  
Gymnasium Scheinfeld

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## Publication Statistics

Refereed Journal Papers **60** (2x *Nat. Commun.*, 1x *npj Quantum Inf.*, 1x *PRL*, 18x *APL*, ...)  
Invited Talks **37** (at Conferences (22), Summer/Grad Schools, Seminars, etc. (15))  
Book Chapters **3** (Springer 2017, 2x Springer 2020)  
Patents **1** (Optoelectronic Device: EP3088927A1, US9599782B2)  
*h*-Index **34** (Google Scholar → [Profile](#))  
Citations **3395** (Google Scholar)

## Most Cited Papers

317 Citations M. Gschrey et al., *Nature Communications* **6**, 7662 (2015)  
235 Citations T. Heindel et al., *Applied Physics Letters* **96**, 011107 (2010)  
214 Citations A. Thoma et al., *Physical Review Letters* **116**, 033601 (2016)  
130 Citations C. Schneider et al., *Applied Physics Letters* **94**, 111111 (2009)  
128 Citations T. Heindel et al., *New Journal of Physics* **14**, 083001 (2012)

## Third-Party Funding

10/2023 – 09/2026 **BMBF Joint Project “NetiQueT” (Budget: 990 Thousand €)**  
07/2022 – 08/2025 **BMBF Joint Project “tubLAN Q.0” (Budget: 850 Thousand €)**  
10/2021 – 09/2024 **Einstein Research Unit “Quantum” (Budget: 420 Thousand €)**  
08/2018 – 08/2023 **BMBF Junior Research Group (Budget: 3.1 Million €)**  
Project: “QuSecure”, Grant No.: 13N14876  
04/2017 **Short-term Scientific Mission (STSM) - COST Action MP1403**  
Location: Technion (Haifa, Israel), Group of Prof. David Gershoni  
Quantum Dot Microlenses → [APL Photonics 2, 121343 \(2017\)](#)

## Awards/Grants

06/2020 **Karl-Scheel-Prize 2020** → [Weblink](#)  
by the Physical Society in Berlin (PGzB)  
07/2018 **BMBF Junior Research Group**  
Funding initiative “Quantum Futur”, Budget: 3.1 Million Euro  
06/2003 **DPG-Abiturpreis**  
by the German Physical Society  
07/2003 **Award of the VDE/VDI Erlangen/Nürnberg**

## Scientific Missions

Abroad **Technion – Israel Institute of Technology, Haifa, Israel**  
Group of Prof. David Gershoni, in 2014/2015/2017  
Germany **Ludwig-Maximilians-Universität München**  
Group of Prof. Harald Weinfurter, im Winter 2012/2013

## Reviewing Activities

since 12/2020 **Review Editor** at “Frontiers in Photonics – Quantum Optics”  
46 peer-reviews for Journals ***Nature, Nature Communications, Science Advances, Physical Review Letters, Physical Review Research, npj Quantum Information, Quantum Science & Technology, Nanoletters, Nanotechnology, Scientific Reports, Applied Physics Letters, Advanced Quantum Technologies, Microelectronic Engineering, Review of Scientific Instruments***  
for Institutions ***National Science Centre Poland (NCN), QuantERA***

# Curriculum Vitae - Dr. Tobias Heindel

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## Conference Organisation

- 09/2022 **Organizer** (with VDI-TZ)  
[BMBF Quantum Futur Junior Research Group Meeting](#),  
Berlin (Germany), 28./29.09.2022
- 03/2022 **Organizer** (with Eleni Diamanti and Simone Luca Portalupi)  
[WE-Heraeus-Seminar on "Photonic Quantum Technologies"](#),  
Bad Honnef (Germany), 17.-19.03.2022
- 12/2020 **Organizer** (with Doris Reiter, Michael Lorke and AGyouLeaP)  
[Online Vortragsreihe „The Quantum Dinner“](#), 05.-22.10.2020
- 12/2019 **Organizing Committee Member**  
"EQEP 7 - Engineering of Quantum Emitter Properties", Berlin  
(Germany), 11.-13.12.2019
- 09/2018 **Organizing Committee Member**  
"NOEKS 14 - Nonlinear Optics and Excitation Kinetics in  
Semiconductors", Berlin (Germany), 23.-27.09.2018
- 06/2018 **Special Session Organizer**  
"SP16: Quantum Nanophotonics for Applications in Quantum  
Information Science", META2018, Marseille (France), June 2018
- 08/2016 **Local Organizing Committee Member**  
"EMN-Meeting on Quantum Communication and Quantum Imaging",  
Berlin (Germany), 23.-26.08.2016
- 11/2015 **Programme Committee Member**  
"ESR-Workshop on Nanoscale Quantum Optics",  
Malta, 15.-18.11.2015

## Community Activities

- 03/2020 – 04/2023 **Chairman and Founding Member**  
Working group „[AGyouLeaP – Young Leaders in Physics](#)“ of the  
German Physical Society (DPG)
- since Summer 2019 **Founding/Junior Faculty Member**  
Graduate School "[Berlin School of Optical Sciences and Quantum  
Technologies \(BOS.QT\)](#)" of the Berlin universities

## Public Outreach

- 1 [Feature Article at PhysicsWorld](#) sponsored by attocube systems AG
- 7 Press Releases ([→ Most recent](#))
- 3 Exclusive Stories/Features (von [AIP](#) and IOP mit BBC News)
- 3 Projects at „Langen Nacht der Wissenschaften“ in Berlin

## Memberships

- since 2012 Physical Society in Berlin (PGzB)
- since 2003 German Physical Society (DPG)